

Ultrasonic fluid level sensor for fluid in container

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Inventor(s): MUENCH HANS-JOACHIM (DE); ZUR HORST-MEYER SANTER DR (DE); KRAUSE WERNER (DE)

Applicant(s):: SONOTEC DR ZUR HORST MEYER & M (DE)

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Equivalents:

Abstract

The ultrasonic transducer (1) and the receiver (2) are fitted to the outer wall of the vessel with their acoustic axes at an angle other than 90 deg. e.g. 45 deg. to the vessel wall. This arrangement guarantees transmission of the transverse wave into the vessel. The transmitter and receiver are fitted either on the same side or on opposite sides of the vessel. They can be either angled probes or standard probes with wedge transducers. This geometry eliminated interfering echoes within the vessel wall and increases measurement accuracy.

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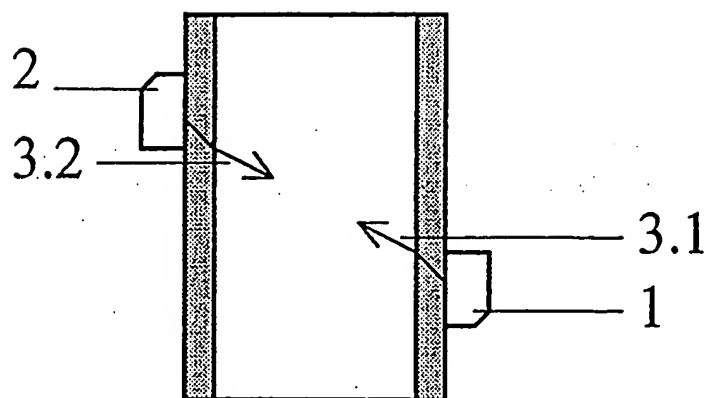


Fig. 1

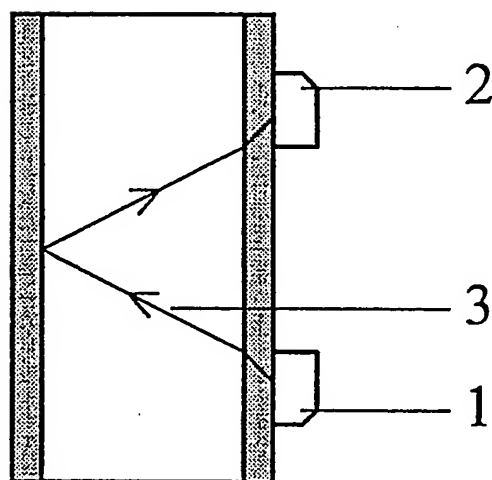


Fig. 2